

ATTACHMENT A

LISTING OF CLAIMS WITH MARKINGS TO SHOW CHANGES MADE

Attachment A
Listing with Markings

I CLAIM:

1. (Currently Amended) An electronic component electronically connected with an external electronic master system comprising:

configurable electronic circuitry means for ~~replicating~~ emulating an output signal from a respective known electronic system sub-component of a known electronic master system, the output signal corresponding to a function of the electronic system sub-component;

an input/output interface for electronically mating the configurable electronic circuit to the electronic master system; and

a configuration controller element electronically connectable with the configurable electronic circuit, the configuration controller determines the location of the configurable electronic circuit in the electronic master system and configures the configurable electronic circuit to ~~replicate~~ emulate a selected function and operational characteristics of the known electronic system sub-component;

wherein the configurable electronic circuit has an output adaptable as an input to the electronic master system to ~~replicate~~ emulate and replace functions of the known electronic system sub-component acting in the electronic master system.

2. (Original) The invention of claim 1 wherein:

the configurable electronic circuit and the input/output interface are mounted with a circuit card assembly.

3. (Canceled)

4. (Original) The invention of claim 1 further including a processor means external to the configurable electronic circuit to load instructions onto the configurable electronic circuit.

5. (Original) The invention of claim 1 wherein the configurable electronic circuit further includes memory means for storing electronic information.

6. (Original) The invention of claim 1 wherein the configurable electronic circuit includes digital logic circuitry.

7. (Original) The invention of claim 1 further including a microprocessor means for executing an emulator program of instructions from the known electronic system sub-component.

8. (Currently Amended) A method of configuring an electronic circuit module to ~~replicate~~ emulate output signals from a known electronic circuit comprising:

determining operational functions and respective output signals of a known electronic system sub-component of an existing electronic master system;

developing a program on an external processor to ~~replicate~~ emulate desired functions of the known electronic system sub-component; and

loading the program onto a configurable electronic circuit that can be electronically connected to the electronic master system; and

determining the location of the configurable electronic circuit in the electronic master system using a configuration controller element electronically connectable with the configurable electronic circuit;

whereby the configurable electronic circuit has an output adaptable as an input to the electronic master system to ~~replicate~~ emulate and replace functions of the known electronic system sub-component acting in the electronic master system.

9. (Original) The invention of claim 8 wherein the configurable electronic circuit is included with a circuit board that can be electronically connected to the electronic master system.

10. (Original) The invention of claim 9 wherein the circuit board is removable from the electronic master system.

11. (New) The invention of claim 1 wherein the configurable electronic circuit includes a field programmable gate array (FPGA).

12. (New) The invention of claim 8 wherein the configurable electronic circuit includes a field programmable gate array (FPGA).